NOV. 1, 1954

50 CENTS



From tin fish to censored

The TBF Avenger was built to deliver tin fish to surface ships. This she did with alacrity during World War II. She also corked harbors with mines, sought subs and sank 'em. The new S2F is more a submarine specialist. Filled with electronic gear that detects, plots, and pin-points an unseen sub, she can drop a censored charge

Grumman

that will guarantee "point of no return" for the sub. The S2F is the latest of a long line of highly effective aircraft designed and built for the U.S. Navy.

GRUMMAN AIRCRAFT ENGINEERING CORPORATION

BETHPAGE - LONG ISLAND - NEW YORK

DESIGNESS AND BUILDERS ALSO OF THE NEW SUPERSONIC TIGGER, ALBATROSS

AMPHIBANS. METAL BOATS. AND ARGBILT TRUCK BODIES

AVENGER



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MAGNESIUM SHEET and CASTINGS cut dead weight for KAMAN AIRCRAFT

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New 8-Place Beechcraft "Super 18" outperforms famous wartime model!



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ANATION WIEK, November 1, 1956

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A user tells how AFTCO SERVICE by Y & SME Prober V & SME CO. "Many of our continuers pay charles Britwalic Bose Couplings for commercial pro re-quested that we obtain Air Fanos-Nawy approval for my re-unable hase out fitzings as that might use then, for military accelerant. Several of our resequilibrant. Several of our reis-tenties were very amount, co-pugadly for a 1" Have Coupling, designed to MS 25700 and mem-ing all the requirements of MSL-8-2000." The spiles for no he got some

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The Aviation Week Necember 1 1954

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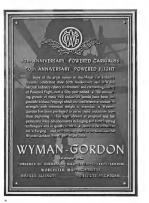
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AVIATION WEEK



DC-7C Challenges Turbine Transports

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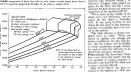
AVAILABLE VEEK, November 1, 1994

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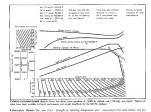
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USAF Offers to Sell 60 Leased C-46s

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Gracest View Looking Aft







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FIRST in mechanical drives







Navy Develops New Air Tanker Concept

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Martin Aircraft Forms Solid Ingots of Scrap Sheet Titanium with Sciaky Spotwelder

The Manufacturing Research and Development Unit of the Clean L. Martin Company Morke Bossoch affers another five excepts of Scieky book thinking is desirn with restricted welding equipment to do new worfel work at the longest

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KAISER METAL PRODUCTS, INC.

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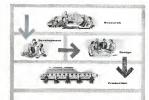
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* Donastic Fundactors - Acatolic weber to build a good deal of the or equipment in her own nead oresist during the part five years Compared producing in curretty the Australian descend hadrok priotee at tener



Navy P2V-7 Gets Jet Power

Lockbook Alexelt Copils broat FINT daples four powerplants et the first fight plets, bein 3,716 by Weght Turke Conturbolets class in pole under the wargs, lets are expected to

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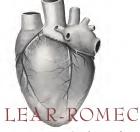
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*Light puseuger plans, somewhat along the lines of the old MSE 110 Meanwallamber Trains, on the tarm . Eight teather and sport place, results · German believeter doughed for media property of 1,000 to 5,000 planers ible to produce a apple-carme, twopossenger plane at a cost of from love reation indepty will, no doubt, contact to the field, the Greaters are

Japan Aviation to Ask \$40 Million ILS Aid

McCoor Hill Yould News felow-Print Minuter Yesleds on

mediction is 1955 of 150 P-56Fs, 50 156Ps, 63 T-35s, 63 T-35s, 63 T-15Ts, 60 T-75Ts

The bear for this peoples is the (cfeux func. (SADF) to 1220 sines. risk have inferred the Japanese gov These efficiels sho point put that

AVIATION WHEE, However, 1, 1854



Next Steps in Atomic Progress ... A Challenge to American Industry

The purpose of this editorial is to those light on the similforance for American industry of report changes in the statutes that control the

The need for clear liebt on the recognize of this new levislation is reade more urwest by the political confusion and distortion that marked its course through Congress. The nohthrolly insuited charges of "Girnaway" that totally secolated to the insidition itself -believe to obscure the vital importance of the sten finally taken by Congress

In solve, nest-Conversational fact, the prinsignal significance of the new atomic locislation is that it extends to private externoise reasonsibility for the development of neurobal may of atomic energy, whereas beyondere this respeciality has restrict in a tight inversement repeated. And this extension is made on terms that combusine the remonability far more than they onen any connectanity for economic main in fulfilling it. The revised Atomic Factory Act provides that-

com review reactors under Bosson from the Atomic Energy Commission. And it may build 2. Industry may use - but not own - madeur materials at the dissection of the Atomic Energy

3. The Attentio Energy Congrission will make available to industry scientific knowledge that may be useful in developing peaceful an

plications of nuclear energy 4. For the first fine, industry will have the right to patent appearance in the field of nonmilitary melour menry. However, "basic" discoveries must be made exaliable to all commonies in the field for a period of free years, after which they, too, will report to record nates?

Two Kinds of Know-How

MATER

These provisions, despite the immosed limitations, represent the first positive stem toward development of madeur energy for neareful applications in the United States, Petersfully until knowledge, previously looked in the minds of envergeent scientists, will now be available to all those who are willing and able to get it to work for the good of muckind.

The odvertages to be gained from collisting the talents of American industry in the developposit of peaceful atomic applications are expessing. As The (London) Economics, Eurane's leading economic formal, recently remarked, "The atomic scientists are in a position to carreise how atomic energy can be applied... but they look the succialized knowledge of engivening drains and apprairies technique into as industry stuff looks atomic knowledge." Note the engineers of private industry need no langer lack the stemic been laden, and there is greated to these or lesse a sestimated function. to apply it to the solution of their ougheering and operating problems

But the new opportunity for private reference of much color acrotes with D n course reasonability. These year worst be an all the free notions. It is essential that the the world our purposed interest in its peaceful application. It would be a moral set-back to the free would almost beyond calculation if the Communists should be able to offer to the nearer nations of the world the benefit of loss ent storie neser-provided by Consumin terbuicana while we concentrate primarily on building our stackwile of attents and broken

Roce For a Peaceful Victory Most of the experts are agreed that it may

he many years - pechane ten, fifteen or more -before the cost of electricity from atomic favore can be reduced to a level that will make is correctified with conventionally resolved or her over in noncer concernes. Electricity gares at a cost far higher than the average that prein many countries, and the nation that provides the technology to bring it toto being will some a great moral victory.

The useful potential of neclete energy is not natrigted to the generation of electric poweralthough twenty years from now this use will he highly important to the power industry of the United States, Even with the limited rethe use of radiototopes - the radioactive prodsets of atomic reactors - is soring American industry so estimated \$100 million a year. Commissioner Complett of the ARC, who made this estimate believes that these sevenes rate well reach \$1 biffion a year within ten years.

ranging all the way from paper manufacturing,

where they measure paper thickness, to pipeline transportation, where they mark the dividing here between abbreviate of different weedoods (at an estimated suring of \$500,000 a year). topes hold processe of longer and race con-

Above All a Challenge

The new Atomic Enemy Art is a countil stride toward the day when all these bracks. -and pudanteelly others not not revealed by smootech as will be realised. But it is a steethat is expectable prevention B will become it

The new set is three above all a shall properhibity to assume a leading sale in the a McGern-Hill reserving depoted to attack enemy. To achieve a process in this task that will measure up to the requirement of the cotional interest, this development must command. all the resources and ingentity that private enterprise can apply and do so without promise of glittering prises strely to be were. But now that the responsibility has been defined and the challenge offered. American industry will, we believe, measure up to its greve and mighty import.

The message is one of a series prepared by the enness or individuals to most or rewint off or

Denned Crucky PAGRAM HILL PERLIENING COMPANY, INC.



Pon Am's new coost-to-coost "PAY-LATER" PLAN set the stope-and the pace-for a brand-new way to sell air travel

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Small Firms Can Save Tax Dollars SDIA

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Lee Predicts Stable Airport Aid Program

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Budget Berust new is considering the Commerce Department oppositions represented by the consideration of the recent of his new Company when at access to human.

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Past & Whitey Areast J-27 tambifs and afterbrane, it has shrenly set to world's spain road el 250.40 mins per hour—an occupili had a spain of a fighter on which as much depended. In the Super Solves, as well as in other supernous of fighten and hip-spend jet housen, performance of the Past & Whiteys Almost J-57 taskopt in fully justifying the lang youes and otherwork other legits.

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THRUST & DRAG

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"A reliable missile," he said.

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FEATURE PAGE

The "Phenological Coffice"-Manua

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